

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 130
Report Date:11/17/2008

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Northwest	052001105	07/14/03	729	50 (5)	23(678)	526.9	1-Bromopropane
Battelle Northwest	059601105	06/04/01	729	50 (5)	26(676)	540.9	Cumene
Battelle Northwest	058800405	09/13/99	729	50 (5)	31(686)	519.5	Divinylbenzene
Battelle Northwest	059700601	05/25/00	726	50 (5)	32(693)	529.7	Methyl isobutyl ketone
Battelle Northwest	058800603	08/06/01	729	50 (5)	27(680)	537.2	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	729	49 (5)	27(683)	525.0	Propargyl alcohol
Battelle Northwest	059302507	06/16/03	729	50 (5)	20(668)	536.2	Tetralin
Female							
Battelle Northwest	052001105	07/14/03	730	50 (5)	34(702)	386.5	1-Bromopropane
Battelle Northwest	059601105	06/04/01	731	50 (5)	21(674)	356.9	Cumene
Battelle Northwest	058800405	09/13/99	731	50 (5)	33(679)	355.3	Divinylbenzene
Battelle Northwest	059700601	05/25/00	727	50 (5)	35(694)	365.6	Methyl isobutyl ketone
Battelle Northwest	058800603	08/06/01	730	50 (5)	27(647)	351.9	alpha-Methylstyrene
Battelle Northwest	059700805	10/01/01	730	50 (5)	29(678)	353.3	Propargyl alcohol
Battelle Northwest	059302507	06/16/03	730	50 (5)	31(682)	370.8	Tetralin

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 131
Report Date:11/17/2008

Male												Female					
#All Organs:																	
Benign Tumors																	
		48/50	(96%)	48/50	(96%)	49/50	(98%)		45/50	(90%)	44/50	(88%)	43/50	(86%)			
		50/50	(100%)	48/50	(96%)	48/49	(98%)		44/50	(88%)	43/50	(86%)	42/50	(84%)			
		48/50	(96%)						40/50	(80%)							
Overall Incidence	Total	339/349	(97.13%)	Mean	97.14%	SD	1.57%	Total	301/350	(86%)	Mean	86%	SD	3.27%			
.....																	
#All Organs:																	
Malignant Tumors																	
		38/50	(76%)	36/50	(72%)	29/50	(58%)		26/50	(52%)	24/50	(48%)	17/50	(34%)			
		31/50	(62%)	32/50	(64%)	32/49	(65%)		22/50	(44%)	25/50	(50%)	26/50	(52%)			
		33/50	(66%)						25/50	(50%)							
Overall Incidence	Total	231/349	(66.19%)	Mean	66.19%	SD	6.06%	Total	165/350	(47.14%)	Mean	47.14%	SD	6.41%			
.....																	
#All Organs:																	
Malignant and Benign Tumors																	
		50/50	(100%)	50/50	(100%)	50/50	(100%)		49/50	(98%)	50/50	(100%)	46/50	(92%)			
		50/50	(100%)	50/50	(100%)	49/49	(100%)		46/50	(92%)	46/50	(92%)	47/50	(94%)			
		50/50	(100%)						46/50	(92%)							
Overall Incidence	Total	349/349	(100%)	Mean	100%	SD	0%	Total	330/350	(94.29%)	Mean	94.29%	SD	3.35%			
.....																	
#All Organs:																	
Hemangioma																	
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)			
		0/50	(0%)						0/50	(0%)							
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 132
Report Date:11/17/2008

Male														Female					
#All Organs: Hemangiosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	2/50	(4%)					
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	2/350	(0.57%)	Mean	0.57%	SD	1.51%					
.....																			
#All Organs: Hemangiosarcoma or Hemangioma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	1/50	(2%)	2/50	(4%)					
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	3/350	(0.86%)	Mean	0.86%	SD	1.57%					
.....																			
#All Organs: Histiocytic Sarcoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	2/50	(4%)					
		0/50	(0%)	1/50	(2%)	0/49	(0%)		2/50	(4%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						2/50	(4%)									
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	6/350	(1.71%)	Mean	1.71%	SD	2.14%					
.....																			
#All Organs: Leukemia: Erythrocytic																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%					
.....																			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: AIR

Report Date:11/17/2008

Male										Female					
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated															
		29/50	(58%)	26/50	(52%)	22/50	(44%)		16/50	(32%)	12/50	(24%)	10/50	(20%)	
		25/50	(50%)	26/50	(52%)	21/49	(43%)		14/50	(28%)	18/50	(36%)	20/50	(40%)	
		25/50	(50%)						17/50	(34%)					
Overall Incidence	Total	174/349	(49.86%)	Mean	49.84%	SD	5.15%	Total	107/350	(30.57%)	Mean	30.57%	SD	7%	
.....															
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#All Organs: Mesothelioma: Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#All Organs: Mesothelioma: Benign, Malignant, NOS															
		0/50	(0%)	3/50	(6%)	2/50	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2.31%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
*: Denominator is number of animals with tissues examined microscopically															
#: Denominator is number of animals necropsied															

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#All Organs:															
Mesothelioma: Malignant															
		0/50	(0%)	3/50	(6%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2.31%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#All Organs:															
Osteoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#All Organs:															
Osteosarcoma															
		2/50	(4%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)							0/50	(0%)				
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2.31%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#All Organs:															
Osteosarcoma or Osteoma															
		2/50	(4%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		3/50	(6%)							0/50	(0%)				
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2.31%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 135
Report Date:11/17/2008

Male								Female							
*Adrenal Cortex: Adenoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		3/50	(6%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	2/50	(4%)	0/50	(0%)	
		0/50	(0%)						8/50	(16%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	13/350	(3.71%)	Mean	3.71%	SD	5.94%	
.....															
*Adrenal Cortex: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Ganglioneuroma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/349	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Hemangioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/349	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 136
Report Date:11/17/2008

Male														Female					
*Adrenal Medulla: Pheochromocytoma Benign																			
		10/50	(20%)	7/50	(14%)	12/50	(24%)		2/50	(4%)	1/50	(2%)	2/50	(4%)					
		8/50	(16%)	8/50	(16%)	8/49	(16%)		3/50	(6%)	1/49	(2%)	1/50	(2%)					
		9/50	(18%)						2/50	(4%)									
Overall Incidence	Total	62/349	(17.77%)	Mean	17.76%	SD	3.33%	Total	12/349	(3.44%)	Mean	3.43%	SD	1.51%					
.....																			
*Adrenal Medulla: Pheochromocytoma Complex																			
		1/50	(2%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%					
.....																			
*Adrenal Medulla: Pheochromocytoma Malignant																			
		0/50	(0%)	1/50	(2%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)	2/50	(4%)	3/49	(6%)		0/50	(0%)	0/49	(0%)	0/50	(0%)					
		4/50	(8%)						1/50	(2%)									
Overall Incidence	Total	11/349	(3.15%)	Mean	3.16%	SD	3.04%	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%					
.....																			
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS																			
		11/50	(22%)	7/50	(14%)	13/50	(26%)		3/50	(6%)	3/50	(6%)	2/50	(4%)					
		8/50	(16%)	10/50	(20%)	10/49	(20%)		3/50	(6%)	1/49	(2%)	1/50	(2%)					
		12/50	(24%)						3/50	(6%)									
Overall Incidence	Total	71/349	(20.34%)	Mean	20.34%	SD	4.23%	Total	16/349	(4.58%)	Mean	4.58%	SD	1.89%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Bone:															
Chondrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Bone:															
Chondrosarcoma or Chondroma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Bone:															
Chordoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Bone:															
Osteoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 138
Report Date:11/17/2008

Male														Female					
#Bone:																			
Osteosarcoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		3/50	(6%)					0/50	(0%)										
Overall Incidence	Total	6/349	(1.72%)	Mean	1.72%	SD	2.14%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
#Bone:																			
Osteosarcoma or Osteoma																			
		1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		3/50	(6%)					0/50	(0%)										
Overall Incidence	Total	6/349	(1.72%)	Mean	1.72%	SD	2.14%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
*Brain:																			
Astrocytoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)						
		0/50	(0%)					0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
*Brain:																			
Ependymoma Benign																			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)					0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%					
.....																			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female														
*Brain:																								
Ependymoma Malignant																								
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)							0/50	(0%)													
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%								
.....																								
*Brain:																								
Glioma Malignant																								
		0/50	(0%)	0/50	(0%)	0/49	(0%)			1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)							0/50	(0%)													
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	3/350	(0.86%)	Mean	0.86%	SD	1.07%								
.....																								
*Brain:																								
Granular Cell Tumor Benign																								
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)							0/50	(0%)													
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%								
.....																								
*Brain:																								
Medulloblastoma Mal																								
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)							0/50	(0%)													
Overall Incidence	Total	1/348	(0.29%)	Mean	0.29%	SD	0.76%			Total	0/350	(0%)	Mean	0%	SD	0%								
.....																								

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female											
*Brain:																					
Meningioma Malignant																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%					
.....																					
*Brain:																					
Meningioma: Benign, Malignant, NOS																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%					
.....																					
*Brain:																					
Oligodendroglioma Benign																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%					
.....																					
*Brain:																					
Oligodendroglioma Malignant																					
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%			Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																					

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 141
Report Date:11/17/2008

Male								Female						
*Brain:														
Oligodendroglioma, Glioma, or Astrocytoma														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	1/50	(2%)	2/50	(4%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%	Total	5/350	(1.43%)	Mean	1.43%	SD	1.9%
.....														
*Brain:														
Osteosarcoma														
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	1/348	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Brain:														
Schwannoma Malignant														
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Clitoral/Preputial Gland:														
Adenoma														
		4/50	(8%)	0/50	(0%)	0/48	(0%)	3/49	(6%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	3/49	(6%)	0/50	(0%)	0/50	(0%)	4/50	(8%)	
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	7/347	(2.02%)	Mean	2.02%	SD	3.49%	Total	8/349	(2.29%)	Mean	2.3%	SD	3.38%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 142
Report Date:11/17/2008

Male														Female					
*Clitoral/Preputial Gland: Carcinoma																			
		2/50	(4%)	0/50	(0%)	0/48	(0%)		1/49	(2%)	2/50	(4%)	0/50	(0%)					
		1/50	(2%)	2/50	(4%)	0/49	(0%)		1/50	(2%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)						4/50	(8%)									
Overall Incidence	Total	5/347	(1.44%)	Mean	1.43%	SD	1.9%	Total	9/349	(2.58%)	Mean	2.58%	SD	2.76%					
.....																			
*Clitoral/Preputial Gland: Carcinoma or Adenoma																			
		6/50	(12%)	0/50	(0%)	0/48	(0%)		4/49	(8%)	3/50	(6%)	0/50	(0%)					
		1/50	(2%)	2/50	(4%)	3/49	(6%)		1/50	(2%)	1/50	(2%)	4/50	(8%)					
		0/50	(0%)						4/50	(8%)									
Overall Incidence	Total	12/347	(3.46%)	Mean	3.45%	SD	4.44%	Total	17/349	(4.87%)	Mean	4.88%	SD	3.46%					
.....																			
*Clitoral/Preputial Gland: Fibrosarcoma																			
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/347	(0%)	Mean	0%	SD	0%	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
*Clitoral/Preputial Gland: Sarcoma																			
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	0/347	(0%)	Mean	0%	SD	0%	Total	0/349	(0%)	Mean	0%	SD	0%					
.....																			

#: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male												Female			
*Clitoral/Preputial Gland: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/48	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/347	(0%)	Mean	0%	SD	0%	Total	0/349	(0%)	Mean	0%	SD	0%	
#Ear: Neural Crest Tumor															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.77%	Total	0/350	(0%)	Mean	0%	SD	0%	
#Esophagus: Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
#Esophagus: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female									
#Eye:																			
Amelanotic Melanoma, Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)								
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%			
.....																			
#Eye:																			
Melanoma Benign																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)								
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%			
.....																			
#Eye:																			
Melanoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)								
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%			
.....																			
#Eye:																			
Schwannoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)								
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%			Total	0/350	(0%)	Mean	0%	SD	0%			
.....																			

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Harderian Gland: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Harderian Gland: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Heart: Schwannoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.77%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Heart: Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Intestine Large: Colon/Rectum: Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Large: Colon/Rectum: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Large: Colon/Rectum: Hemangioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 147
Report Date:11/17/2008

Male						Female					
#Intestine Small: Duodenum: Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean 0% SD 0%
.....											
#Intestine Small: Duodenum: Leiomyoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean 0% SD 0%
.....											
#Intestine Small: Jejunum: Carcinoma											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean 0% SD 0%
.....											
#Intestine Small: Jejunum: Granular Cell Tumor Malignant											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					0/50	(0%)		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean 0% SD 0%
.....											

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Intestine Small: Jejunum: Leiomyoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Jejunum: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 149
Report Date:11/17/2008

Male								Female							
#Intestine Small: Site Unspecified: Granular Cell Tumor Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Leiomyoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Islets, Pancreatic: Adenoma															
		0/50	(0%)	1/50	(2%)	5/50	(10%)		0/50	(0%)	1/50	(2%)	1/50	(2%)	
		3/50	(6%)	3/50	(6%)	4/49	(8%)		0/50	(0%)	3/50	(6%)	1/50	(2%)	
		3/50	(6%)						0/50	(0%)					
Overall Incidence	Total	19/349	(5.44%)	Mean	5.45%	SD	3.43%	Total	6/350	(1.71%)	Mean	1.71%	SD	2.14%	

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female					
*Islets, Pancreatic: Carcinoma															
		3/50	(6%)	2/50	(4%)	1/50	(2%)			1/50	(2%)	1/50	(2%)	0/50	(0%)
		4/50	(8%)	1/50	(2%)	5/49	(10%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)							0/50	(0%)				
Overall Incidence	Total	17/349	(4.87%)	Mean	4.89%	SD	3.29%		Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%
.....															
*Islets, Pancreatic: Carcinoma or Adenoma															
		3/50	(6%)	3/50	(6%)	6/50	(12%)			1/50	(2%)	2/50	(4%)	1/50	(2%)
		7/50	(14%)	4/50	(8%)	9/49	(18%)			0/50	(0%)	3/50	(6%)	1/50	(2%)
		4/50	(8%)							0/50	(0%)				
Overall Incidence	Total	36/349	(10.32%)	Mean	10.34%	SD	4.64%		Total	8/350	(2.29%)	Mean	2.29%	SD	2.14%
.....															
*Kidney: Pelvis and Transitional Epithelium: Carcinoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%		Total	0/348	(0%)	Mean	0%	SD	0%
.....															
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%		Total	0/348	(0%)	Mean	0%	SD	0%
.....															

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 151
Report Date:11/17/2008

Male								Female							
*Kidney: Pelvis and Transitional Epithelium: Papilloma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/348	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Adenoma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	0/348	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Carcinoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)		1/49	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/348	(0.29%)	Mean	0.29%	SD	0.77%	
.....															
*Kidney: Renal Tubule: Carcinoma or Adenoma															
		1/50	(2%)	2/50	(4%)	0/50	(0%)		1/49	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	3/349	(0.86%)	Mean	0.86%	SD	1.57%	Total	1/348	(0.29%)	Mean	0.29%	SD	0.77%	
.....															

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male						Female						
*Kidney: Renal Tubule: Hemangiosarcoma												
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)
		0/50	(0%)						0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%
.....												
*Kidney: Renal Tubule: Lipoma												
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)
		0/50	(0%)						0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/348	(0%)	Mean	0%
.....												
*Kidney: Renal Tubule: Liposarcoma												
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)
		0/50	(0%)						0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/348	(0%)	Mean	0%
.....												
*Kidney: Renal Tubule: Mesenchymal Tumor Benign												
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/49	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/49	(0%)
		0/50	(0%)						0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%
.....												

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female													
*Kidney: Renal Tubule: Nephroblastoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%	SD	0%									
.....																							
*Kidney: Renal Tubule: Sarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/49	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/49	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%	SD	0%									
.....																							
*Liver: Cholangioma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%									
.....																							
*Liver: Hemangiosarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)				
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%									
.....																							

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 154
Report Date:11/17/2008

Male														Female					
*Liver:																			
Hepatocellular Adenoma																			
		0/50	(0%)		0/50	(0%)		0/50	(0%)		0/50	(0%)		0/50	(0%)				
		1/50	(2%)		0/50	(0%)			0/50	(0%)		0/50	(0%)		0/50	(0%)			
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	2/349	(0.57%)		Mean	0.57%		SD	0.98%		Total	0/350	(0%)		Mean	0%			
*Liver:																			
Hepatocellular Carcinoma																			
		2/50	(4%)		0/50	(0%)		0/50	(0%)		1/50	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)		0/50	(0%)		1/49	(2%)		0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)								0/50	(0%)							
Overall Incidence	Total	3/349	(0.86%)		Mean	0.86%		SD	1.58%		Total	1/350	(0.29%)		Mean	0.29%	SD	0.76%	
*Liver:																			
Hepatocellular Carcinoma or Hepatoblastoma																			
		2/50	(4%)		0/50	(0%)		0/50	(0%)		1/50	(2%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)		0/50	(0%)		1/49	(2%)		0/50	(0%)		0/50	(0%)	0/50	(0%)		
		0/50	(0%)								0/50	(0%)							
Overall Incidence	Total	3/349	(0.86%)		Mean	0.86%		SD	1.58%		Total	1/350	(0.29%)		Mean	0.29%	SD	0.76%	
*Liver:																			
Hepatocellular Carcinoma or Hepatocellular Adenoma																			
		2/50	(4%)		0/50	(0%)		0/50	(0%)		1/50	(2%)		0/50	(0%)	0/50	(0%)		
		1/50	(2%)		0/50	(0%)		1/49	(2%)		0/50	(0%)		0/50	(0%)	0/50	(0%)		
		1/50	(2%)								0/50	(0%)							
Overall Incidence	Total	5/349	(1.43%)		Mean	1.43%		SD	1.51%		Total	1/350	(0.29%)		Mean	0.29%	SD	0.76%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Length of Study: CHRONIC

Vehicle: AIR

Report Date:11/17/2008

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
*Lung: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Lymph Node: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 157
Report Date:11/17/2008

Male														Female					
#Lymph Node, Mesenteric: Sarcoma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%					
.....																			
#Mammary Gland: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	3/50	(6%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	1.54%	Total	3/350	(0.86%)	Mean	0.86%	SD	2.27%					
.....																			
#Mammary Gland: Carcinoma																			
		0/50	(0%)	2/50	(4%)	1/50	(2%)		4/50	(8%)	10/50	(20%)	3/50	(6%)					
		2/50	(4%)	0/50	(0%)	0/49	(0%)		5/50	(10%)	3/50	(6%)	7/50	(14%)					
		0/50	(0%)						3/50	(6%)									
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	1.9%	Total	35/350	(10%)	Mean	10%	SD	5.29%					
.....																			
#Mammary Gland: Carcinoma or Adenoma																			
		0/50	(0%)	2/50	(4%)	1/50	(2%)		4/50	(8%)	10/50	(20%)	3/50	(6%)					
		2/50	(4%)	0/50	(0%)	2/49	(4%)		5/50	(10%)	3/50	(6%)	10/50	(20%)					
		0/50	(0%)						3/50	(6%)									
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2.01%	Total	38/350	(10.86%)	Mean	10.86%	SD	6.41%					

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 158
Report Date:11/17/2008

Male								Female							
#Mammary Gland: Fibroadenoma															
		2/50	(4%)	0/50	(0%)	1/50	(2%)		25/50	(50%)	24/50	(48%)	20/50	(40%)	
		2/50	(4%)	1/50	(2%)	1/49	(2%)		22/50	(44%)	22/50	(44%)	26/50	(52%)	
		1/50	(2%)						14/50	(28%)					
Overall Incidence	Total	8/349	(2.29%)	Mean	2.29%	SD	1.38%	Total	153/350	(43.71%)	Mean	43.71%	SD	8.04%	
.....															
#Mammary Gland: Fibroma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma															
		2/50	(4%)	0/50	(0%)	1/50	(2%)		25/50	(50%)	24/50	(48%)	20/50	(40%)	
		2/50	(4%)	1/50	(2%)	3/49	(6%)		22/50	(44%)	22/50	(44%)	28/50	(56%)	
		1/50	(2%)						14/50	(28%)					
Overall Incidence	Total	10/349	(2.87%)	Mean	2.87%	SD	1.98%	Total	155/350	(44.29%)	Mean	44.29%	SD	8.83%	
.....															
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma															
		2/50	(4%)	2/50	(4%)	1/50	(2%)		27/50	(54%)	31/50	(62%)	22/50	(44%)	
		4/50	(8%)	1/50	(2%)	3/49	(6%)		26/50	(52%)	24/50	(48%)	31/50	(62%)	
		1/50	(2%)						16/50	(32%)					
Overall Incidence	Total	14/349	(4.01%)	Mean	4.02%	SD	2.33%	Total	177/350	(50.57%)	Mean	50.57%	SD	10.56%	
.....															

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Mesentery: Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Mesentery: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Mesentery: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Mesentery: Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 160
Report Date:11/17/2008

Male								Female							
*Nose:															
Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)		
		0/50	(0%)					0/50	(0%)			0/49	(0%)		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%	SD	0%	
.....															
*Nose:															
Chondroma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/348	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
*Nose:															
Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)	0/49	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%	SD	0%	
.....															
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):															
Papilloma Squamous or Papilloma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 161
Report Date:11/17/2008

Male								Female							
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						1/50	(2%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma															
		1/50	(2%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						1/50	(2%)					
Overall Incidence	Total	3/349	(0.86%)	Mean	0.86%	SD	1.07%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Oral Mucosa: Squamous Cell Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Oral Mucosa: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male				Female			
*Ovary:							
Granulosa Cell Tumor Benign							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	0/350	(0%)	Mean	0%	SD	0%
.....							
*Ovary:							
Granulosa Cell Tumor Malignant							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....							
*Ovary:							
Granulosa Cell Tumor: Benign, Malignant, NOS							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....							
*Ovary:							
Granulosa-Theca Tumor Benign							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	0/350	(0%)	Mean	0%	SD	0%
.....							

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female					
*Ovary:															
Granulosa-Theca Tumor Malignant															
										2/50	(4%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)				
Overall Incidence						Total		2/350 (0.57%)		Mean 0.57%		SD 1.51%			
.....															
*Ovary:															
Tubulostromal Adenoma															
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)	0/50	(0%)	0/50	(0%)
										0/50	(0%)				
Overall Incidence						Total		0/350 (0%)		Mean 0%		SD 0%			
.....															
*Pancreas:															
Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence		Total	0/349 (0%)	Mean 0%		SD 0%		Total 0/350 (0%)		Mean 0%		SD 0%			
.....															
*Pancreas:															
Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence		Total	0/349 (0%)	Mean 0%		SD 0%		Total 0/350 (0%)		Mean 0%		SD 0%			
.....															

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 164
Report Date:11/17/2008

Male								Female							
*Pancreas:															
Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas:															
Mixed Tumor Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	1.54%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas:															
Mixed Tumor Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Parathyroid Gland:															
Adenoma															
		0/46	(0%)	0/45	(0%)	0/46	(0%)		0/47	(0%)	0/49	(0%)	0/49	(0%)	
		0/49	(0%)	0/47	(0%)	0/47	(0%)		0/46	(0%)	0/43	(0%)	0/49	(0%)	
		0/48	(0%)						0/49	(0%)					
Overall Incidence	Total	0/328	(0%)	Mean	0%	SD	0%	Total	0/332	(0%)	Mean	0%	SD	0%	
.....															

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 165
Report Date:11/17/2008

Male										Female					
#Peripheral Nerve: Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma															
		37/50	(74%)	36/50	(72%)	36/50	(72%)		35/50	(70%)	35/50	(70%)	37/50	(74%)	
		35/50	(70%)	34/49	(69%)	36/49	(73%)		24/49	(49%)	35/50	(70%)	30/50	(60%)	
		36/50	(72%)						36/49	(73%)					
Overall Incidence	Total	250/348	(71.84%)	Mean	71.84%	SD	1.67%	Total	232/348	(66.67%)	Mean	66.64%	SD	9.04%	
.....															
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/49	(0%)		0/49	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)						0/49	(0%)					
Overall Incidence	Total	1/348	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/348	(0.29%)	Mean	0.29%	SD	0.76%	
.....															

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 166
Report Date:11/17/2008

Male						Female								
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma														
		37/50	(74%)	36/50	(72%)	36/50	(72%)	35/50	(70%)	36/50	(72%)	37/50	(74%)	
		35/50	(70%)	34/49	(69%)	36/49	(73%)	24/49	(49%)	35/50	(70%)	30/50	(60%)	
		37/50	(74%)					36/49	(73%)					
Overall Incidence	Total	251/348	(72.13%)	Mean	72.12%	SD	1.87%	Total	233/348	(66.95%)	Mean	66.92%	SD	9.2%
.....														
*Pituitary Gland: Pars Intermedia: Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	1/49	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/49	(0%)					
Overall Incidence	Total	1/348	(0.29%)	Mean	0.29%	SD	0.77%	Total	0/348	(0%)	Mean	0%	SD	0%
.....														
*Pituitary Gland: Pars Intermedia: Carcinoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	0/49	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/49	(0%)					
Overall Incidence	Total	0/348	(0%)	Mean	0%	SD	0%	Total	0/348	(0%)	Mean	0%	SD	0%
.....														
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/49	(0%)	1/49	(2%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)					0/49	(0%)					
Overall Incidence	Total	1/348	(0.29%)	Mean	0.29%	SD	0.77%	Total	0/348	(0%)	Mean	0%	SD	0%
.....														

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female											
*Prostate:																					
Adenoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)														
		0/50	(0%)	0/50	(0%)	0/49	(0%)														
		0/50	(0%)																		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%														
.....																					
*Prostate:																					
Carcinoma or Adenoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)														
		0/50	(0%)	0/50	(0%)	0/49	(0%)														
		0/50	(0%)																		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%														
.....																					
*Salivary Glands:																					
Sarcoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)																		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%							
.....																					
*Salivary Glands:																					
Schwannoma Malignant																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)																		
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%							
.....																					

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male										Female									
#Seminal Vesicle: Adenoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)												
		0/50	(0%)	0/50	(0%)	0/49	(0%)												
		0/50	(0%)																
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%												
#Skeletal Muscle: Hemangioma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)																
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%					
#Skeletal Muscle: Hemangiosarcoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)																
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%					
#Skeletal Muscle: Lipoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)																
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%					

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 169
Report Date:11/17/2008

Male										Female					
#Skeletal Muscle: Rhabdomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skeletal Muscle: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Adenoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)					0/50	(0%)						
Overall Incidence	Total	4/349	(1.15%)	Mean	1.15%	SD	1.07%	Total	0/350	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 170
Report Date:11/17/2008

Male								Female							
#Skin:															
Basal Cell Adenoma or Basosquamous Tumor Benign															
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)					0/50	(0%)						
Overall Incidence	Total	4/349	(1.15%)	Mean	1.15%	SD	1.07%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma															
		0/50	(0%)	1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)		
		1/50	(2%)					0/50	(0%)						
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	0.98%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skin:															
Basal Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		3/50	(6%)					0/50	(0%)						
Overall Incidence	Total	3/349	(0.86%)	Mean	0.86%	SD	2.27%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		3/50	(6%)					0/50	(0%)						
Overall Incidence	Total	3/349	(0.86%)	Mean	0.86%	SD	2.27%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 171
Report Date:11/17/2008

Male						Female					
#Skin:											
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma											
		0/50 (0%)	1/50 (2%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	1/49 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		4/50 (8%)				0/50 (0%)					
Overall Incidence	Total	8/349 (2.29%)	Mean 2.29%	SD 2.69%		Total	1/350 (0.29%)	Mean 0.29%	SD 0.76%		
.....											
#Skin:											
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma											
		1/50 (2%)	5/50 (10%)	2/50 (4%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	2/50 (4%)	5/49 (10%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		5/50 (10%)				1/50 (2%)					
Overall Incidence	Total	20/349 (5.73%)	Mean 5.74%	SD 4.27%		Total	3/350 (0.86%)	Mean 0.86%	SD 1.07%		
.....											
#Skin:											
Fibroma											
		3/50 (6%)	3/50 (6%)	5/50 (10%)		2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		4/50 (8%)	4/50 (8%)	3/49 (6%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)		
		3/50 (6%)				0/50 (0%)					
Overall Incidence	Total	25/349 (7.16%)	Mean 7.16%	SD 1.56%		Total	4/350 (1.14%)	Mean 1.14%	SD 1.57%		
.....											
#Skin:											
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma											
		3/50 (6%)	3/50 (6%)	6/50 (12%)		2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		5/50 (10%)	5/50 (10%)	4/49 (8%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)		
		6/50 (12%)				0/50 (0%)					
Overall Incidence	Total	32/349 (9.17%)	Mean 9.17%	SD 2.53%		Total	6/350 (1.71%)	Mean 1.71%	SD 1.8%		
.....											

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 172
Report Date:11/17/2008

Male								Female							
#Skin:															
Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		3/50	(6%)						0/50	(0%)					
Overall Incidence	Total	6/349	(1.72%)	Mean	1.72%	SD	2.14%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skin:															
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	0/50	(0%)	
		1/50	(2%)	1/50	(2%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	1/50	(2%)	
		3/50	(6%)						0/50	(0%)					
Overall Incidence	Total	7/349	(2.01%)	Mean	2.01%	SD	2%	Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%	
.....															
#Skin:															
Fibrous Histiocytoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skin:															
Hemangioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 173
Report Date:11/17/2008

Male								Female							
#Skin:															
Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Keratoacanthoma															
		0/50	(0%)	4/50	(8%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	4/49	(8%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)						0/50	(0%)					
Overall Incidence	Total	10/349	(2.87%)	Mean	2.88%	SD	3.66%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skin:															
Lipoma															
		2/50	(4%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	2/49	(4%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	6/349	(1.72%)	Mean	1.73%	SD	1.82%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Liposarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 174
Report Date:11/17/2008

Male								Female							
#Skin:															
Neural Crest Tumor															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Skin:															
Neural Crest Tumor, Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibroma or Schwannoma benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin:															
Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)						0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 175
Report Date:11/17/2008

Male										Female											
#Skin:																					
Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	1/49	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		1/50	(2%)							0/50	(0%)										
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%							
#Skin:																					
Osteosarcoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%							
#Skin:																					
Sarcoma																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%							
#Skin:																					
Schwannoma Benign																					
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)				
		0/50	(0%)							0/50	(0%)										
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%							

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 176
Report Date:11/17/2008

Male								Female							
#Skin:															
Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)						0/50	(0%)					
Overall Incidence	Total	2/349	(0.57%)	Mean	0.58%	SD	0.99%	Total	0/350	(0%)	Mean	0%	SD	0%	
#Skin:															
Squamous Cell Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						1/50	(2%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
#Skin:															
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/50	(6%)						1/50	(2%)					
Overall Incidence	Total	4/349	(1.15%)	Mean	1.14%	SD	2.27%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
#Skin:															
Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 177
Report Date:11/17/2008

Male														Female					
#Skin:																			
Squamous Cell Papilloma or Papilloma																			
		0/50	(0%)		0/50	(0%)		1/50	(2%)			0/50	(0%)		0/50	(0%)		0/50	(0%)
		0/50	(0%)		0/50	(0%)		0/49	(0%)			0/50	(0%)		0/50	(0%)		0/50	(0%)
		0/50	(0%)									0/50	(0%)					0/50	(0%)
Overall Incidence	Total	1/349	(0.29%)		Mean	0.29%		SD	0.76%		Total	0/350	(0%)		Mean	0%		SD	0%
.....																			
#Skin:																			
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma																			
		1/50	(2%)		4/50	(8%)		1/50	(2%)			1/50	(2%)		0/50	(0%)		0/50	(0%)
		0/50	(0%)		1/50	(2%)		4/49	(8%)			0/50	(0%)		0/50	(0%)		0/50	(0%)
		1/50	(2%)									1/50	(2%)						
Overall Incidence	Total	12/349	(3.44%)		Mean	3.45%		SD	3.25%		Total	2/350	(0.57%)		Mean	0.57%		SD	0.98%
.....																			
#Skin:																			
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma																			
		0/50	(0%)		4/50	(8%)		1/50	(2%)			1/50	(2%)		0/50	(0%)		0/50	(0%)
		0/50	(0%)		1/50	(2%)		4/49	(8%)			0/50	(0%)		0/50	(0%)		0/50	(0%)
		1/50	(2%)									0/50	(0%)						
Overall Incidence	Total	11/349	(3.15%)		Mean	3.17%		SD	3.48%		Total	1/350	(0.29%)		Mean	0.29%		SD	0.76%
.....																			
#Skin:																			
Trichoepithelioma																			
		0/50	(0%)		0/50	(0%)		1/50	(2%)			0/50	(0%)		0/50	(0%)		0/50	(0%)
		0/50	(0%)		0/50	(0%)		0/49	(0%)			0/50	(0%)		0/50	(0%)		1/50	(2%)
		0/50	(0%)									0/50	(0%)						
Overall Incidence	Total	1/349	(0.29%)		Mean	0.29%		SD	0.76%		Total	1/350	(0.29%)		Mean	0.29%		SD	0.76%

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 178
Report Date:11/17/2008

Male								Female							
#Skin: Sebaceous Gland: Adenoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		2/50	(4%)					0/50	(0%)						
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	1.51%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland: Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland: Carcinoma or Adenoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	1/49	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		2/50	(4%)					0/50	(0%)						
Overall Incidence	Total	5/349	(1.43%)	Mean	1.43%	SD	1.51%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Spinal Cord: Astrocytoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)					0/50	(0%)						
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 179
Report Date:11/17/2008

Male						Female								
#Spinal Cord: Astrocytoma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
#Spinal Cord: Glioma Malignant														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Spleen: Fibrosarcoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														
*Spleen: Fibrous Histiocytoma														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)					0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 180
Report Date:11/17/2008

Male										Female													
*Spleen:																							
Hemangioma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		1/50	(2%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%									
.....																							
*Spleen:																							
Hemangiosarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)						
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%									
.....																							
*Spleen:																							
Leiomyosarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	1/50	(2%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%									
.....																							
*Spleen:																							
Sarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)						
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%									
.....																							

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male												Female			
#Stomach, Forestomach: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
#Stomach, Glandular: Leiomyosarcoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Glandular: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/49	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)							0/50	(0%)				
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
*Testes: Adenoma															
		34/50	(68%)	36/50	(72%)	38/50	(76%)								
		42/50	(84%)	33/50	(66%)	38/49	(78%)								
		29/50	(58%)												
Overall Incidence	Total	250/349	(71.63%)	Mean	71.65%	SD	8.54%								
.....															
*Thymus: Sarcoma															
		0/43	(0%)	0/49	(0%)	0/48	(0%)			0/46	(0%)	0/48	(0%)	0/45	(0%)
		0/49	(0%)	0/42	(0%)	0/47	(0%)			0/47	(0%)	0/50	(0%)	0/46	(0%)
		0/47	(0%)							0/44	(0%)				
Overall Incidence	Total	0/325	(0%)	Mean	0%	SD	0%	Total	0/326	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 183
Report Date:11/17/2008

Male														Female					
*Thymus:																			
Thymoma Benign																			
		0/43	(0%)	0/49	(0%)	0/48	(0%)	1/46	(2%)	0/48	(0%)	0/45	(0%)						
		0/49	(0%)	0/42	(0%)	1/47	(2%)	0/47	(0%)	1/50	(2%)	0/46	(0%)						
		0/47	(0%)					0/44	(0%)										
Overall Incidence	Total	1/325	(0.31%)	Mean	0.3%	SD	0.8%	Total	2/326	(0.61%)	Mean	0.6%	SD	1.02%					
.....																			
*Thymus:																			
Thymoma Malignant																			
		0/43	(0%)	0/49	(0%)	0/48	(0%)	0/46	(0%)	0/48	(0%)	0/45	(0%)						
		0/49	(0%)	0/42	(0%)	0/47	(0%)	0/47	(0%)	0/50	(0%)	0/46	(0%)						
		0/47	(0%)					0/44	(0%)										
Overall Incidence	Total	0/325	(0%)	Mean	0%	SD	0%	Total	0/326	(0%)	Mean	0%	SD	0%					
.....																			
*Thymus:																			
Thymoma: Benign, Malignant, NOS																			
		0/43	(0%)	0/49	(0%)	0/48	(0%)	1/46	(2%)	0/48	(0%)	0/45	(0%)						
		0/49	(0%)	0/42	(0%)	1/47	(2%)	0/47	(0%)	1/50	(2%)	0/46	(0%)						
		0/47	(0%)					0/44	(0%)										
Overall Incidence	Total	1/325	(0.31%)	Mean	0.3%	SD	0.8%	Total	2/326	(0.61%)	Mean	0.6%	SD	1.02%					
.....																			
*Thyroid Gland: C-Cell:																			
Adenoma																			
		5/50	(10%)	3/50	(6%)	2/50	(4%)	3/50	(6%)	3/50	(6%)	0/50	(0%)						
		1/50	(2%)	3/49	(6%)	4/49	(8%)	3/50	(6%)	2/50	(4%)	3/50	(6%)						
		5/50	(10%)					3/50	(6%)										
Overall Incidence	Total	23/348	(6.61%)	Mean	6.61%	SD	3%	Total	17/350	(4.86%)	Mean	4.86%	SD	2.27%					
.....																			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 184
Report Date:11/17/2008

		Male						Female						
*Thyroid Gland: C-Cell: Carcinoma														
		4/50	(8%)	1/50	(2%)	1/50	(2%)		1/50	(2%)	0/50	(0%)	1/50	(2%)
		2/50	(4%)	0/49	(0%)	3/49	(6%)		1/50	(2%)	1/50	(2%)	2/50	(4%)
		2/50	(4%)						0/50	(0%)				
Overall Incidence	Total	13/348	(3.74%)	Mean	3.73%	SD	2.71%	Total	6/350	(1.71%)	Mean	1.71%	SD	1.38%
.....														
*Thyroid Gland: C-Cell: Carcinoma or Adenoma														
		9/50	(18%)	3/50	(6%)	3/50	(6%)		4/50	(8%)	3/50	(6%)	1/50	(2%)
		3/50	(6%)	3/49	(6%)	7/49	(14%)		4/50	(8%)	3/50	(6%)	5/50	(10%)
		6/50	(12%)						3/50	(6%)				
Overall Incidence	Total	34/348	(9.77%)	Mean	9.77%	SD	4.98%	Total	23/350	(6.57%)	Mean	6.57%	SD	2.51%
.....														
*Thyroid Gland: Follicular Cell: Adenoma														
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/49	(0%)	1/49	(2%)		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	2/348	(0.57%)	Mean	0.58%	SD	0.99%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....														
*Thyroid Gland: Follicular Cell: Carcinoma														
		0/50	(0%)	2/50	(4%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/50	(2%)	0/49	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)						0/50	(0%)				
Overall Incidence	Total	3/348	(0.86%)	Mean	0.86%	SD	1.57%	Total	0/350	(0%)	Mean	0%	SD	0%
.....														

#: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 185
Report Date:11/17/2008

Male								Female							
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma															
		0/50	(0%)	2/50	(4%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/49	(0%)	1/49	(2%)		1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	5/348	(1.44%)	Mean	1.43%	SD	1.51%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Tissue NOS: Lipoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	1/49	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.77%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Paraganglioma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Schwannoma Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 186
Report Date:11/17/2008

Male														Female					
#Tongue:																			
Squamous Cell Carcinoma																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						1/50	(2%)									
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
#Tongue:																			
Squamous Cell Carcinoma or Papilloma Squamous																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						1/50	(2%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%					
.....																			
#Tongue:																			
Squamous Cell Papilloma																			
		0/50	(0%)	0/50	(0%)	1/50	(2%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)						0/50	(0%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%					
.....																			
#Tooth:																			
Adamantinoma Malignant																			
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/50	(0%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/50	(2%)						0/50	(0%)									
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/350	(0%)	Mean	0%	SD	0%					
.....																			

*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male												Female											
#Tooth:																							
Odontoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%									
*Urinary Bladder:																							
Carcinoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)		
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/349	(0%)	Mean	0%	SD	0%									
*Urinary Bladder:																							
Carcinoma or Papilloma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)		
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/349	(0%)	Mean	0%	SD	0%									
*Urinary Bladder:																							
Leiomyosarcoma																							
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/49	(0%)		
		0/50	(0%)							0/50	(0%)												
Overall Incidence	Total	0/349	(0%)	Mean	0%	SD	0%	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%									

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male								Female							
*Urinary Bladder: Papilloma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/50	(2%)	0/50	(0%)	0/49	(0%)		0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/50	(0%)						0/50	(0%)					
Overall Incidence	Total	1/349	(0.29%)	Mean	0.29%	SD	0.76%	Total	0/349	(0%)	Mean	0%	SD	0%	
.....															
#Uterus: Adenoma															
									0/50	(0%)	0/50	(0%)	1/50	(2%)	
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
									1/50	(2%)					
Overall Incidence								Total	2/350	(0.57%)	Mean	0.57%	SD	0.98%	
.....															
#Uterus: Carcinoma															
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
									1/50	(2%)					
Overall Incidence								Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%	
.....															
#Uterus: Deciduoma Benign															
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
									0/50	(0%)	0/50	(0%)	0/50	(0%)	
									0/50	(0%)					
Overall Incidence								Total	0/350	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male			Female				
#Uterus:							
Hemangioma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....							
#Uterus:							
Hemangiosarcoma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/50	(0%)				
Overall Incidence	Total	1/350	(0.29%)	Mean	0.29%	SD	0.76%
.....							
#Uterus:							
Leiomyoma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	0/350	(0%)	Mean	0%	SD	0%
.....							
#Uterus:							
Leiomyosarcoma							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	0/350	(0%)	Mean	0%	SD	0%
.....							

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Male			Female				
#Uterus:							
Polyp Stromal							
		8/50	(16%)	13/50	(26%)	9/50	(18%)
		12/50	(24%)	6/50	(12%)	12/50	(24%)
		6/50	(12%)				
Overall Incidence	Total	66/350	(18.86%)	Mean	18.86%	SD	5.87%
.....							
#Uterus:							
Sarcoma Stromal							
		2/50	(4%)	1/50	(2%)	0/50	(0%)
		1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	4/350	(1.14%)	Mean	1.14%	SD	1.57%
.....							
#Uterus:							
Sarcoma Stromal or Polyp Stromal							
		10/50	(20%)	14/50	(28%)	9/50	(18%)
		13/50	(26%)	6/50	(12%)	12/50	(24%)
		6/50	(12%)				
Overall Incidence	Total	70/350	(20%)	Mean	20%	SD	6.43%
.....							
#Uterus:							
Schwannoma Malignant							
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)				
Overall Incidence	Total	0/350	(0%)	Mean	0%	SD	0%
.....							

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 191
Report Date:11/17/2008

Male								Female							
#Vagina: Polyp															
								0/50	(0%)	2/50	(4%)	0/50	(0%)		
								0/50	(0%)	0/50	(0%)	0/50	(0%)		
								0/50	(0%)						
Overall Incidence				Total				2/350	(0.57%)	Mean 0.57%		SD 1.51%			
.....															
#Vagina: Sarcoma															
								1/50	(2%)	0/50	(0%)	0/50	(0%)		
								1/50	(2%)	0/50	(0%)	0/50	(0%)		
								0/50	(0%)						
Overall Incidence				Total				2/350	(0.57%)	Mean 0.57%		SD 0.98%			
.....															
#Zymbal's Gland: Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)				0/50	(0%)							
Overall Incidence		Total	0/349	(0%)	Mean	0%	SD	0%	Total	0/350	(0%)	Mean	0%	SD	0%
.....															
#Zymbal's Gland: Carcinoma															
		0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	1/50	(2%)	1/50	(2%)		
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)				1/50	(2%)							
Overall Incidence		Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	4/350	(1.14%)	Mean	1.14%	SD	1.07%
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: Nov2008
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: INHALATION
Vehicle: AIR

Page: 192
Report Date:11/17/2008

Male						Female					
#Zymbal's Gland:											
Carcinoma or Adenoma											
		0/50	(0%)	1/50	(2%)	0/50	(0%)	1/50	(2%)	1/50	(2%)
		1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)					1/50	(2%)		
Overall Incidence	Total	2/349	(0.57%)	Mean	0.57%	SD	0.98%	Total	4/350	(1.14%)	
								Mean	1.14%	SD	1.07%

.....
*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied